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**United States Patent** [19]**Hongoh**[11] **Patent Number:** **5,115,374**[45] **Date of Patent:** **May 19, 1992**

[54] **PORTABLE COMPUTER INCLUDING, FOR FACSIMILE TRANSMISSION, A DOCUMENT SCANNER INTEGRAL WITH THE DISPLAY MODULE**

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[56] **References Cited**

**U.S. PATENT DOCUMENTS**

4,232,367	11/1980	Youden et al.	364/710.13 X
4,553,219	12/1985	Ueno	364/705.01
4,566,072	1/1986	Mortensen et al.	364/710.13 X
4,827,085	5/1989	Yaniv et al.	379/100 X
4,833,547	5/1989	Mase	358/400 X
4,980,848	12/1990	Griffin et al.	364/708

4,989,237	1/1991	Kotani et al.	358/498 X
5,038,222	8/1991	Saito	358/401

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[57] **ABSTRACT**

A laptop computer having an internal modem and facsimile adapter in its main body including a member, on one side of which is formed a touch display screen, which is pivotably mounted by means of a hinge to the main body and which is positionable between a closed position abutting the keyboard, disk drive and a CD ROM drive, and an open position in which the display screen is upright. The member includes the entire paper path for an image scanner contained in the member, which paper path extends from a paper feed slot in a free end of the member remote from the hinge and a paper release slot in the other side of the member proximate the hinge. The member is connected to the hinge by a pair of electrical connectors which are configured so that the member may be connected in either of two ways with a selected side of the member facing the keyboard during operation of the computer.

**11 Claims, 2 Drawing Sheets**

